



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michele Orlando et al.
Serial No. : 10/530,849
Filed : January 19, 2006
Title : PHARMACEUTICALLY ACTIVE OLIGOSACCHARIDE CONJUGATES

Art Unit : 1623
Examiner : Unknown
Conf. No. : 9170

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 21, 2006

Elizabeth N. Kaytor
Elizabeth N. Kaytor, Ph.D.
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Lisa M. Becker



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TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (15 pages);
3. Copies of Cited References (287 references); and
4. A Return Postcard.

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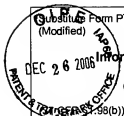
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Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
14503-019US1Application No.
10/530,849**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant
Michele Orlando et al.Filing Date
April 8, 2005Group Art Unit
1623**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	3,191,291	06/29/65	Maier			
	2	4,064,118	12/20/77	Wong			
	3	4,125,492	11/14/78	Cuatrecasas et al.			
	4	4,179,337	12/18/79	Davis et al.			
	5	4,261,973	04/14/81	Lee et al.			
	6	4,412,989	11/01/83	Iwashita et al.			
	7	4,667,016	05/19/87	Lai et al.			
	8	4,703,008	10/27/87	Lin			
	9	4,766,106	08/23/88	Katre et al.			
	10	4,847,325	07/11/89	Shadle et al.			
	11	4,863,964	09/05/89	Hedlund et al.			
	12	4,904,584	02/27/90	Shaw			
	13	5,068,321	11/26/91	Buysch et al.			
	14	5,214,132	05/25/93	Kuga et al.			
	15	5,217,998	06/08/93	Hedlund et al.			
	16	5,218,092	06/08/93	Sasaki et al.			
	17	5,218,108	06/08/93	Sommermeyer et al.			
	18	5,281,698	01/25/94	Nitecki			
	19	5,362,853	11/08/94	Kuga et al.			
	20	5,470,843	11/28/95	Stahl et al.			
	21	5,484,903	01/16/96	Szablikowski et al.			
	22	5,543,332	08/06/96	Lihme et al.			
	23	5,581,476	12/03/96	Osslund			
	24	5,622,718	04/22/97	Al-Shamkhani et al.			
	25	6,083,909	07/04/00	Sommermeyer et al.			
	26	6,555,660	04/29/03	Nissen et al.			
	27	2004/0180858	09/16/04	Sommermeyer			

Examiner Signature
Patrick Lewis/ (11/21/2008)

Date Considered

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Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

**Information Disclosure Statement
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(Use several sheets if necessary)

(37 CFR §1.98(b))

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	28	2 441 442	09/26/03	CA				
	29	2 478 478	01/09/04	CA				
	30	2 478 480	01/09/04	CA				
	31	279 486	06/06/90	DD			Abst.	
	32	100 41 541	03/14/02	DE			Abst.	
	33	101 12 825	02/10/02	DE			Abst.	
	34	101 26 158	12/12/02	DE			Abst.	
	35	101 29 369	03/06/03	DE			Abst.	
	36	101 35 694	02/06/03	DE			Abst.	
	37	101 55 098	05/22/03	DE			Abst.	
	38	102 09 821	09/25/03	DE			Abst.	
	39	102 17 994	11/06/03	DE			Abst.	
	40	102 54 745	06/03/04	DE			Abst.	
	41	102 56 558	09/16/04	DE			Abst.	
	42	196 28 705	01/15/98	DE			Abst.	
	43	198 08 079	08/26/99	DE			Abst.	
	44	22 33 977	02/01/73	DE			Abst.	
	45	26 07 706	05/13/93	DE			Abst.	
	46	26 16 086	11/03/77	DE			Abst.	
	47	26 46 854	05/03/89	DE			Abst.	
	48	30 29 307	03/04/82	DE			Abst.	
	49	38 36 600	05/03/90	DE			Abst.	
	50	41 30 807	03/18/93	DE			Abst.	
	51	0 019 403	11/26/80	EP				
	52	0 138 572	04/24/85	EP				
	53	0 148 605	07/25/90	EP				
	54	0 205 564	05/02/91	EP				

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	55	0 243 929	11/04/87	EP				
	56	0 304 183	02/22/89	EP				
	57	0 307 827	03/22/89	EP				
	58	0 315 349	05/10/89	EP				
	59	0 338 916	10/25/89	EP			Abst.	
	60	0 402 724	06/02/90	EP			Abst.	
	61	0 411 678	01/08/92	EP				
	62	0 418 523	06/21/95	EP				
	63	0 428 267	05/22/91	EP				
	64	0 605 963	07/13/94	EP				
	65	0 609 968	08/10/94	EP				
	66	0 640 619	03/01/95	EP				
	67	0 646 130	04/05/95	EP				
	68	0 668 351	08/23/95	EP				
	69	0 809 996	05/31/96	EP				
	70	1 230 935	08/14/02	EP			Abst.	
	71	1 398 322	09/11/03	EP				
	72	1 398 327	09/11/03	EP				
	73	1 398 328	09/11/03	EP				
	74	1 400 533	09/11/02	EP				
	75	1 419 080	12/24/75	GB				
	76	WO 02/80979	10/17/02	WIPO			Abst.	
	77	WO 02/09766	02/07/02	WIPO				
	78	WO 02/40057	05/23/02	WIPO				
	79	WO 03/00738	01/03/03	WIPO			Abst.	
	80	WO 03/59246	07/24/03	WIPO				
	81	WO 03/74087	09/12/03	WIPO			Abst.	

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							Yes	No
	82	WO 03/74088	09/12/03	WIPO			Abst.	
	83	WO 04/09082	01/29/04	WIPO				
	84	WO 04/24761	03/25/04	WIPO				
	85	WO 04/50710	06/17/04	WIPO			Abst.	
	86	WO 04/65425	08/05/04	WIPO			Abst.	
	87	WO 90/07939	07/26/90	WIPO				
	88	WO 90/15628	12/27/90	WIPO				
	89	WO 93/23062	11/25/93	WIPO				
	90	WO 94/01483	01/20/94	WIPO				
	91	WO 94/13697	06/23/94	WIPO				
	92	WO 94/28024	12/08/94	WIPO				
	93	WO 94/29370	12/22/94	WIPO				
	94	WO 95/06058	03/02/95	WIPO				
	95	WO 95/13090	05/18/95	WIPO				
	96	WO 96/11953	04/25/96	WIPO				
	97	WO 96/19242	06/27/96	WIPO				
	98	WO 96/40662	12/19/96	WIPO				
	99	WO 96/41813	12/27/96	WIPO				
	100	WO 97/21452	06/19/97	WIPO				
	101	WO 97/30148	08/21/97	WIPO				
	102	WO 97/33552	09/18/97	WIPO				
	103	WO 97/38727	10/23/97	WIPO			Abst.	
	104	WO 98/01158	01/15/98	WIPO			Abst.	
	105	WO 98/08856	03/05/98	WIPO			Abst.	
	106	WO 98/20905	05/22/98	WIPO				
	107	WO 98/32466	07/30/98	WIPO			Abst.	
	108	WO 98/56424	12/17/98	WIPO				

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	109	WO 99/49897	10/07/99	WIPO					

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	110	Abuchowski and Davis, "Soluble Polymer-Enzyme Adducts," <u>Enzymes as Drugs</u> , 1981, Holcenberg and Rubberts (eds.), Chapter 13, pp. 367-383, John Wiley & Sons N.Y.
	111	Alayash and Cashion, "Hemoglobin and free radicals: implications for the development of a safe blood substitute," <u>Molec. Med. Today</u> , 1995, 1(3):122-127
	112	Ashwell, "Carbohydrate Antigens: Coupling of Carbohydrates to Proteins by a Mixed Anhydride Reaction," <u>Meth. Enzymol.</u> , 1972, 28:219-222
	113	Avigad, "A Simple Spectrophotometric Determination of Formaldehyde and Other Aldehydes: Application to Periodate-Oxidized Glycol Systems," <u>Anal. Biochem.</u> , 1983, 134:499-504
	114	Baldwin et al., "Synthesis of Polymer-Bound Hemoglobin Samples," <u>Tetrahedron</u> , 1981, 37:1723-1726
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	116	Barbone et al., "Reticulocyte measurements as a bioassay for erythropoietin," <u>J. Pharm. Biomed. Anal.</u> , 1994, 12(4):515-522
	117	Bärström et al., "New derivatives of reducing oligosaccharides and their use in enzymatic reactions: efficient synthesis of sialyl Lewis x and sialyl dimeric Lewis x glycoconjugates," <u>Carbohydr. Res.</u> , 2000, 328:525-531
	118	Bauer et al., "Synthesis of ω-(Aminoxy)alkanethiols," <u>J. Org. Chem.</u> , 1965, 30:949-951
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	120	Bendele et al., "Short Communication: Renal Tubular Vacuolation in Animals Treated with Polyethylene-Glycol-Conjugated Proteins," <u>Toxicol. Sci.</u> , 1998, 42:152-157
	121	Benesch, "Bis(pyridoxal) Polyphosphates as Specific Intramolecular Cross-Linking Agents for Hemoglobin," <u>Meth. Enzymol.</u> , 1994, 231:267-274
	122	Bepperling et al., "HES 130/0.4, a new HES specification: tissue storage after multiple infusions in rats," <u>Crit. Care</u> , 1999, 3(suppl 1):P153
	123	Berger et al., "Galactosyltransferase-dependent sialylation of complex and endo-N-acetylglucosaminidase H-treated core N-glycans in vitro," <u>FEBS Lett.</u> , 1986, 203(1):64-68
	124	Black et al., "N-Bromoacetyl-glycopyranosylamines as affinity labels for a β-glucosidase and a cellulase," <u>Carbohydr. Res.</u> , 1993, 250:195-202
	125	Bobbitt, "Periodate Oxidation of Carbohydrates," <u>Carbohydr. Chem.</u> , 1956, 11:1-41
	126	Boissel et al., "Erythropoietin Structure-Function Relationships. Mutant proteins that test a model of tertiary structure," <u>J. Biol. Chem.</u> , 1993, 268(21):15983-15993
	127	Boturny et al., "Synthesis of Fluorescent Probes for the Detection of Abasic Sites in DNA," <u>Tetrahedron</u> , 1997, 53(15):5485-5492

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Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	128	Bowen et al., "Estimation of Effective and Total Erythropoiesis in Myelodysplasia Using Serum Transferrin Receptor and Erythropoietin Concentrations, with Automated Reticulocyte Parameters," <u>Leukemia</u> , 1994, 8(1):151-155
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	130	Bunn & Jandl, "The Renal Handling of Hemoglobin. II. Catabolism," <u>J. Exp. Med.</u> , 1967, 129:925-934
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	132	Bystrický et al., "Determination of the cross-linking effect of adipic acid dihydrazide on glycoconjugate preparation," <u>Glycoconj. J.</u> , 1999, 16:691-695
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	134	Carlsson et al., "Protein Thiolation and Reversible Protein-Protein Conjugation," <u>Biochem. J.</u> , 1978, 173:723-737
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	136	Cerny et al., "A Hydroxyethyl Starch-Hemoglobin Polymer as a Blood Substitute," <u>Clinical Hemorheology</u> , 1982, 2(4):355-365
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	139	Chagnon et al., "Murine renal cell carcinoma: evaluation of a dendritic-cell tumour vaccine," <u>BJU Int.</u> , 2001, 88:418-424
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	142	Chapman et al., "Therapeutic antibody fragments with prolonged in vivo half-lives," <u>Nature Biotech.</u> , 1999, 17:780-783
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	145	Cumber et al., "Preparation of Antibody-Toxin Conjugates," <u>Meth. Enzymol.</u> , 1985, 112:207-225
	146	Delgado et al., "The Uses and Properties of PEG-Linked Proteins," <u>Crit. Rev. Ther. Drug Carrier Syst.</u> , 1992, 9(3/4):249-304
	147	Delorme et al., "Role of Glycosylation on the Secretion and Biological Activity of Erythropoietin," <u>Biochemistry</u> , 1992, 31(41):9871-9876
	148	Dittmar et al., "Human Glycoproteins and Derived Variants from Recombinant Mammalian Cell Lines," <u>Advances in Protein Design</u> , 1989, 12:145-156

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	149	Dorner et al., "Increased Synthesis of Secreted Proteins Induces Expression of Glucose-regulated Proteins in Butyrate-treated Chinese Hamster Ovary Cells," <u>J. Biol. Chem.</u> , 1989, 264(34):20602-20607
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	159	Fibi et al., "N- and O-Glycosylation Muteins of Recombinant Human Erythropoietin Secreted From BHK-21 Cells," <u>Blood</u> , 1995, 85(5):1229-1236
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		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

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		Michele Orlando et al.	
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Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
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